

### Abstract

A filter system for adsorbing contaminants from an exhaust stream from a molten carbonate fuel cell including a filter substrate, a high surface area inorganic adsorbent secured to the filter substrate by an inorganic binder and an inorganic acid secured to the filter substrate. Also disclosed is a process for preparing the filter system for filtering exhaust gas from the molten carbonate fuel cell and a process for using the filtering system in a molten carbonate fuel cell system.

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12-19-01  
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